

Online Advanced Certificate Course on

Applied Artificial Intelligence, Data Science and Cybersecurity with Python

Hands-on Learning for Real-World Tech Jobs in AI & Cybersecurity

22 May - 07 June 2026 | 9:00 AM IST | Fri, Sat & Sun

🇦🇪 Dubai: 7:30 AM | 🇰🇸 KSA: 6:30 AM | 🇬🇧 London: 4:30 AM | 🇺🇸 New York: 11:30 PM (Previous Day) | 🇸🇬 Singapore: 11:30 AM

About the Course

This advanced certificate course is a comprehensive, hands-on program designed to equip learners with in-demand skills in Artificial Intelligence, Data Science, and Cybersecurity using Python. The course integrates foundational knowledge with practical implementation, enabling participants to solve real-world problems through data-driven approaches and secure computing practices.

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|  Industry-Ready Skills |  Hands-on Projects |
|  Multiple Career Opportunities |  Strong Portfolio Development |
|  Industry Tools Exposure |  Interview & Job Readiness |

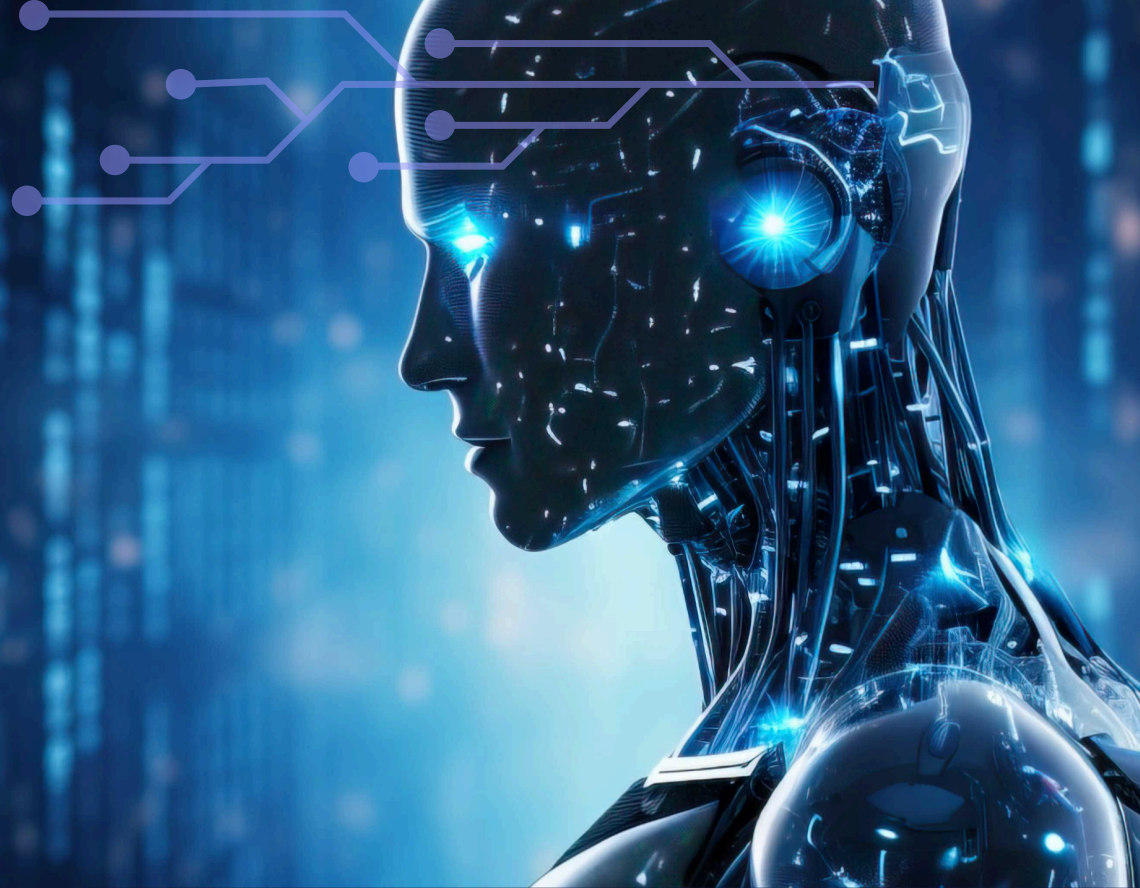
What You'll Get

- Certificate of Participation
- Live & Interactive Sessions with Experts
- Session Recordings for Revision
- Lecture PPTs & Practice Datasets
- Installation of software & tools
- Hands-on Learning Experience
- Real-World Projects & Case Studies
- Career Guidance & Job Support

**Learn from Experts
& Get Job Assistance**

REGISTER NOW





Course Objectives

- Build strong Python foundations for data-driven roles in MNCs
- Gain practical AI/ML workflow skills used in industry projects
- Learn cybersecurity practices aligned with global standards
- Solve real-world business problems through hands-on projects
- Develop job-ready portfolio for MNC hiring requirements
- Get familiar with tools & workflows used in top tech companies
- Strengthen problem-solving skills for corporate environments
- Prepare for entry-level roles in leading MNCs (AI, Data, Security)

Course Outcomes

- Develop Python programs for data tasks & automation
- Perform data analysis and build ML models
- Apply cybersecurity practices for data protection
- Use tools like NumPy, Pandas & Scikit-learn
- Complete an industry-style project
- Get job-ready for roles in AI, Data & Cybersecurity

Target Audience

UG/PG students in CSE/IT/ECE and allied disciplines, research scholars, faculty members, and early-career professionals interested in AI, data analytics, secure computing, and practical Python-based implementation.

Course Fee

Indian Participants:
Rs 2500/-
Other Participants:
US 100 \$



Course Module

Module 1: Python Fundamentals

- Environment setup (Jupyter/Colab)
- Data types, variables, operators
- Control structures (loops, conditions)
- Functions and file handling
- Introduction to scientific computing

Module 2: Data Science Essentials

- NumPy and Pandas
- Data cleaning and preprocessing
- Feature understanding
- Data visualization (Matplotlib/Seaborn)
- Case-based data analysis

Module 3: AI & Machine Learning Basics

- Introduction to AI/ML
- Supervised vs Unsupervised learning
- Classification and regression
- Model evaluation techniques
- Hands-on exercises

Module 4: Applied Machine Learning & Cybersecurity Fundamentals

- Introduction to AI/ML
- Supervised vs Unsupervised learning
- Classification and regression
- Model evaluation techniques
- Hands-on exercises
- Cybersecurity basics and threat landscape
- Data privacy and protection
- Secure coding practices
- Digital forensics basics
- Case studies on secure systems

*Capstone Project & Career Support

- Industry-oriented mini project
- Report preparation and presentation
- Resume & portfolio building
- Interview preparation guidance
- Final assessment

Software and Tools Used

- Python 3.x
- Jupyter Notebook / Google Colab
- Anaconda (optional) & VS Code / PyCharm (optional)
- NumPy, Pandas, Matplotlib, Scikit-learn
- Basic cybersecurity/open-source tools (for demonstrations)
- Laptop/Desktop system with Stable internet connection



matplotlib



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